

## CLAIMS

1. A decoding device for decoding a bit stream including a plurality of packets, in which data corresponding to an access unit includes a first data portion and a second data portion, the decoding device comprising:

5 a packet regeneration section for receiving a first packet and a second packet following the first packet, and when the first packet includes the first data portion and the second packet includes the second data portion, producing a new packet including the data corresponding to the access unit by combining the first data portion and the second data portion; and

10 a decoding section for decoding the data corresponding to the access unit,

15 wherein the new packet includes information indicating a length of the data corresponding to the access unit.

2. A decoding device according to claim 1, wherein the new packet further includes information indicating a presentation time stamp.

3. A decoding device according to claim 1, wherein the packet regeneration section generates a plurality of new packets, the decoding device further comprising:

25 a storage section for storing the plurality of new packets generated by the packet regeneration section; and a read control section for controlling a reading operation of the plurality of new packets from the storage section so as to skip at least one of the plurality of new packets by using the information indicating the length of the data corresponding to the access unit.

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4. A decoding device according to claim 1, wherein the packet regeneration section generates a plurality of new packets, the decoding device further comprising:

- 5       a storage section for storing the plurality of new packets generated by the packet regeneration section; and  
      a read control section for controlling a reading operation of the plurality of new packets from the storage section so as to repeatedly read at least one of the plurality of new packets by using the information indicating the length  
10      of the data corresponding to the access unit.

5. A decoding method for decoding a bit stream including a plurality of packets, in which data corresponding to an access unit includes a first data portion and a second data portion, the decoding method comprising the steps of:

- 15       receiving a first packet and a second packet following the first packet, and when the first packet includes the first data portion and the second packet includes the second data portion, producing a new packet  
20      including the data corresponding to the access unit by combining the first data portion and the second data portion; and

- decoding the data corresponding to the access unit, wherein the new packet includes information indi-  
25      cating a length of the data corresponding to the access unit.

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